



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/719,616	11/21/2003	Mark Gerald M. Cruz	TI-36691	3137
23494	7590	10/22/2007	EXAMINER	
TEXAS INSTRUMENTS INCORPORATED			MUSTAPHA, ABDULFATTAH B	
P O BOX 655474, M/S 3999			ART UNIT	PAPER NUMBER
DALLAS, TX 75265			2812	
NOTIFICATION DATE		DELIVERY MODE		
10/22/2007		ELECTRONIC		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

uspto@ti.com
uspto@demail.itg.ti.com

Office Action Summary	Application No.	Applicant(s)
	10/719,616	CRUZ ET AL.
	Examiner	Art Unit
	Abdulfattah Mustapha	2812

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 20 June 2007.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-20 is/are pending in the application.
 - 4a) Of the above claim(s) 9-20 is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1 and 5 - 8 is/are rejected.
- 7) Claim(s) 2-4 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 11/21/2003 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

WALTER LINDSAY JR.
 PRIMARY EXAMINER

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of Group 1 (Claims 1 –8) in the reply filed on 6/20/2007 is acknowledged.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 5, 7 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Kay [US 2002/0093080].

As to claim 1, Kay disclose tape substrate 30, pair of lateral edges parallel to one another, each lateral edge having respective first and second ends; a pair of longitudinal guide strips parallel to one another, one of the longitudinal guide strips extending between the respective first ends of the pair of lateral edges and the other longitudinal guide strip extending between the respective second ends of the pair of lateral edges; and a plurality of die attach regions disposed within the area defined by the pair of lateral edges and the pair of longitudinal guide strips; a boat clip having a plurality of windows coupled to the boat such that the tape substrate is sandwiched between the

Art Unit: 2812

boat and the boat clip 40; and wherein each longitudinal guide strip comprises a pair of tabs disposed at opposite ends thereof such that each tab extends beyond a respective one of the lateral edges. {Kay: [0013] – [0026], [Figures 2 – 4]}.

As to claim 5, Kay discloses the tabs lie in the same plane as the tape substrate
30. {Kay: [0015], [0023] - [0025], [Figures 2-4]}.

As to claim 7, Kay discloses the tabs are formed integral with the longitudinal
guide strips. {Kay: [0015], [0022] - [0025], [Figures 2-4]}.

As to claim 8, Kay discloses the boat clip is magnetically coupled to the boat.
{Kay: [0015], [0022] - [0025], [Figures 2-4]}.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kay [US 2002/0093080] as applied to claim 1 above, and further in view of Sheppard et al. [US 6,111,324].

As to claim 6, Kay discloses all the element of the claim except the tape substrate is formed from polyimide. However, Sheppard et al. disclose the tape substrate 501 is formed from polyimide. {Sheppard et al.: [Col. 2; Line 21 - 24], [Col. 4; Line 8 – 22], [Figure 5]}. It would have been obvious to one of ordinary skill in the art at the time of invention to modify invention of Kay by adding the tape substrate is formed from polyimide in order to maximize the benefits of automation in the assembly process and to minimize retooling requirements.

Allowable Subject Matter

Claims 2-4 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Limitations:

"the tabs are triangularly shaped", as read in claim 2.

"the tabs are oriented at an angle of between approximately thirty degrees and sixty degrees with respect to the respective lateral edge" as read in claim 3.

"the tabs are oriented at an angle of approximately forty-five degrees with respect to the respective lateral edge" as read in claim 4.

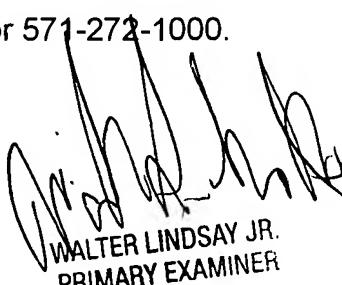
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Abdulfattah Mustapha whose telephone number is 571-272-9736. The examiner can normally be reached on Mon-Thus. (7:00am - 6:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Lebentritt can be reached on 571-272-1873. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Abdulfattah Mustapha



WALTER LINDSAY JR.
PRIMARY EXAMINER